

The logo of the Art Institute of Chicago, featuring a dark red square with the text "ART INSTITUTE CHICAGO" in white, stacked vertically.

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# **Fedora 4 as a Shared Linked Data Repository for the AIC Collections**

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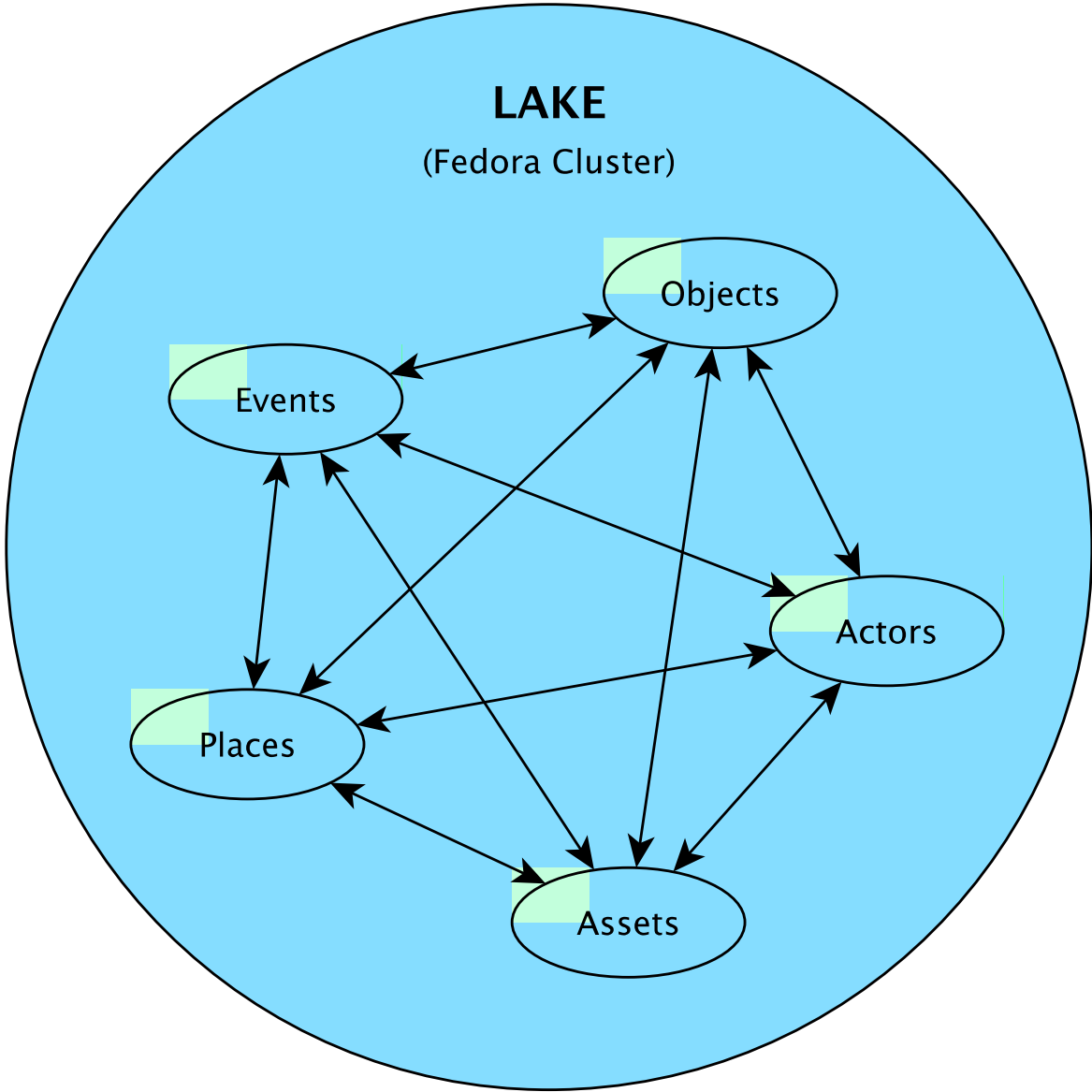
# The AIC Collections

- 250,000 art objects in Collections
- Several millions of image and text assets
- Many different departments access these data
  - 11 Curatorial depts.
  - Registrar
  - Conservation
  - Imaging
  - Publications
  - Help Desk
  - Etc.

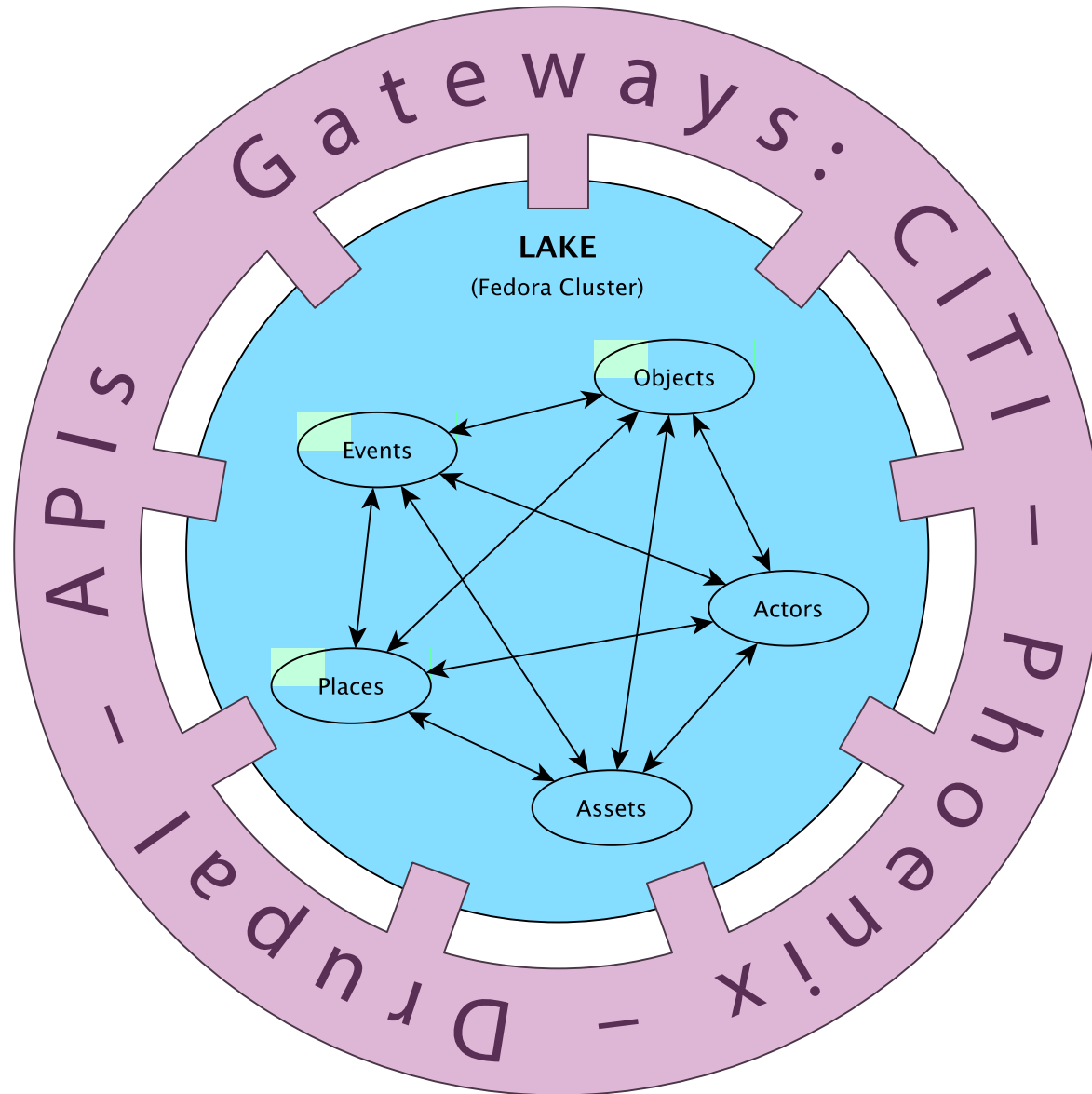
# Goals

- Build a scalable asset repository
- Create a pool of shared, linked information
- Move toward a de-centralized, asynchronous architecture
- Maintain current CMS as the main management platform
- Standardize data formats

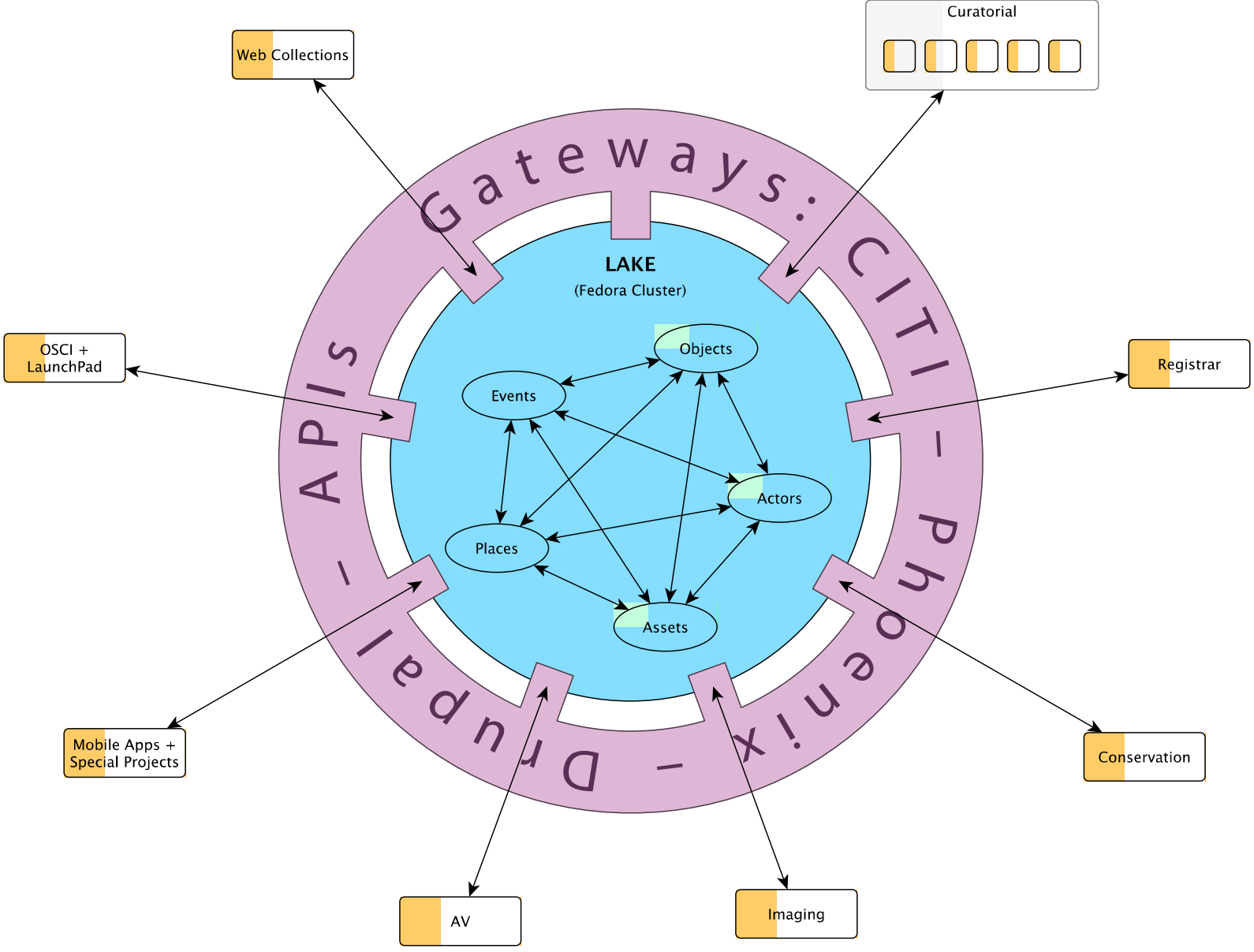
# LAKE – Linked Asset and Knowledge Ecosystem



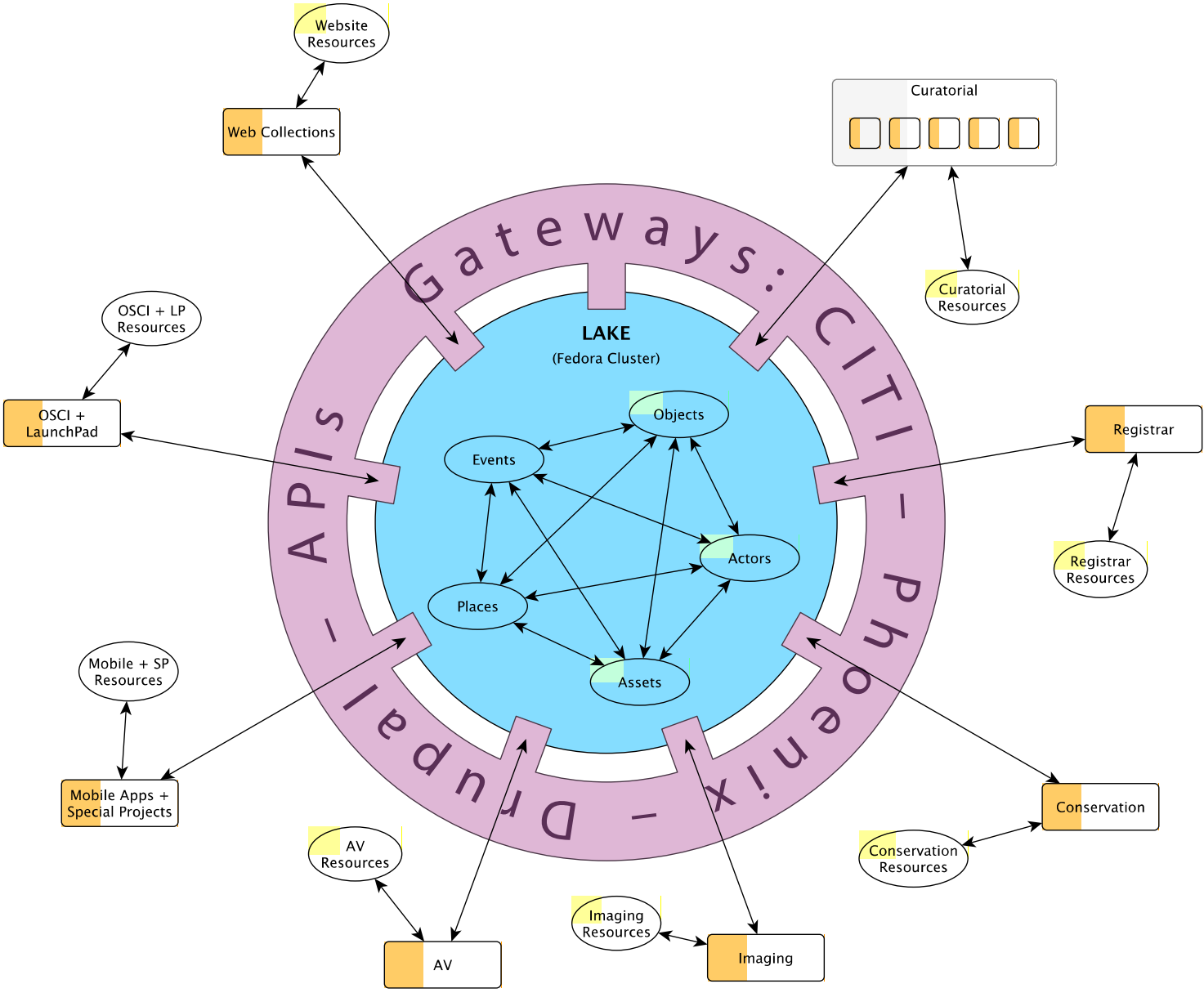
# LAKE Gateways to Shared Data



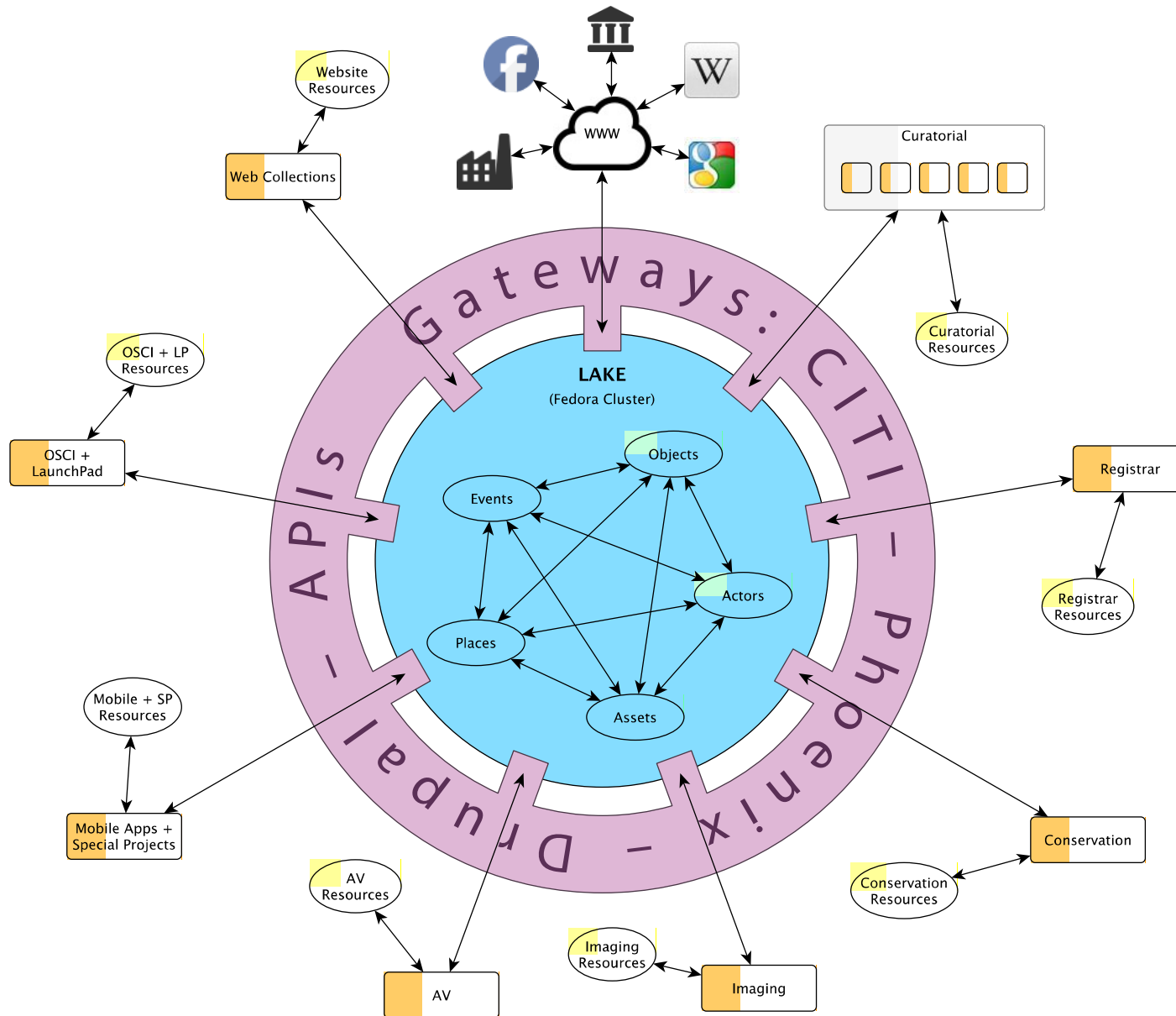
# AIC Departments with Access Roles



# Non-Shared Data



# Federate WWW Resources





# Why Fedora?

- Scalable and reliable
- Interface agnostic
- Content agnostic
- Modular, distributed
- Community driven

# Fedora 4: a hard decision

- We built a F3 proof of concept, then moved to F4
- F4 features are very helpful to our mission
- F3 had the guarantee of stability
- Some features won't be available soon in F4
- Starting with F3 and migrating to F4 later would have been very time-consuming

# Fedora 4 Key Features for AIC

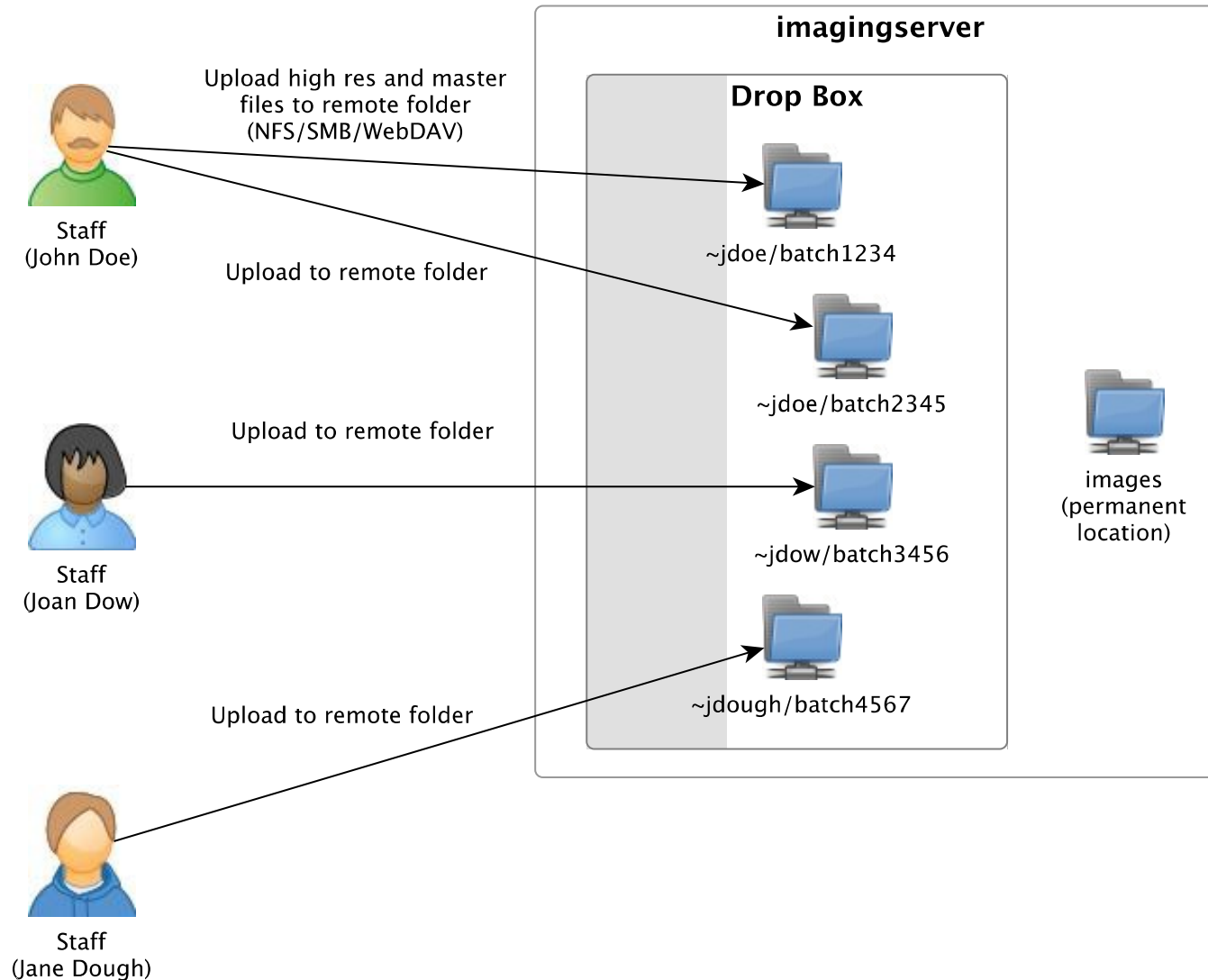
- Federation of external sources
- Asynchronous content processing (Sequencers)
- Powerful REST API
- Clustering
- Completely RDF-based
- HTML management interface

# Use case proposals

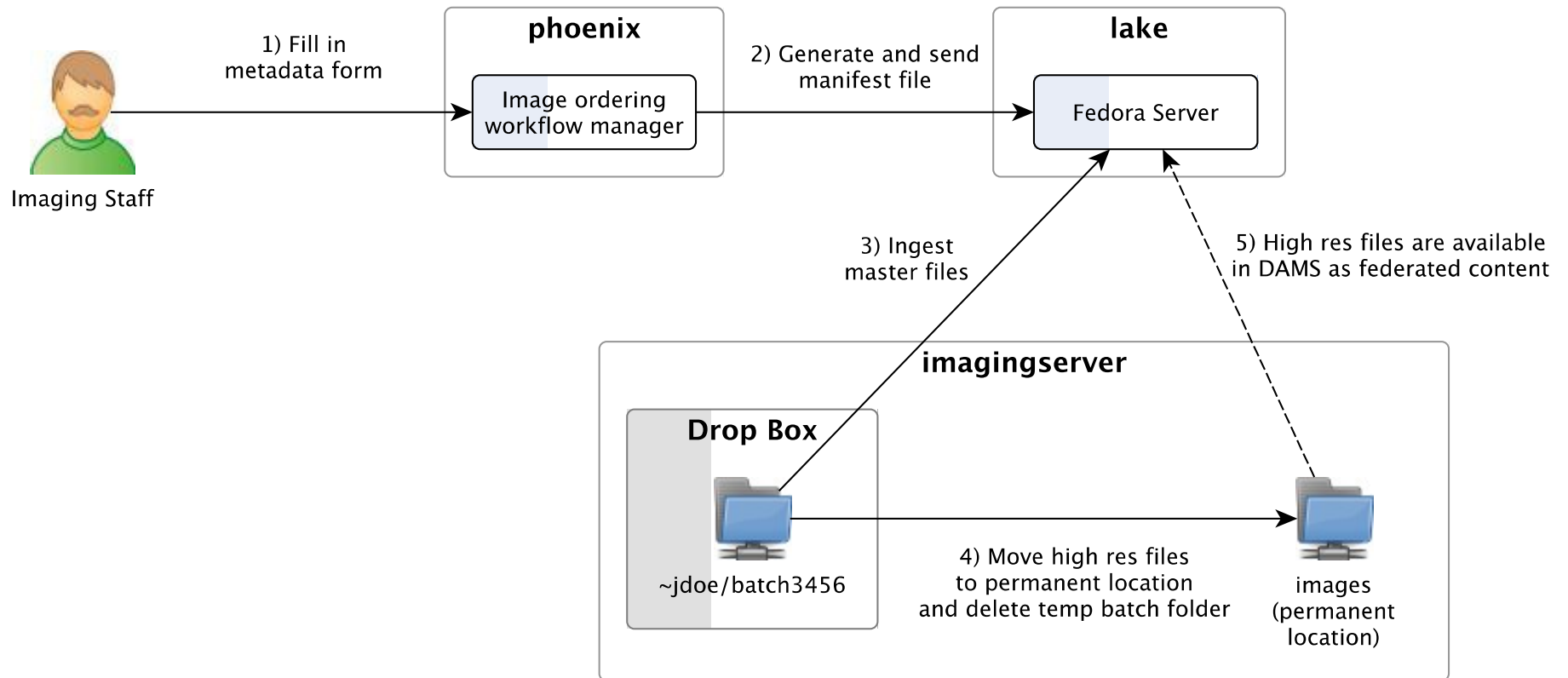
Functionality we plan to build around F4 features:

- Large file ingestion
- Metadata extraction
- Content Modeling and Access Policies

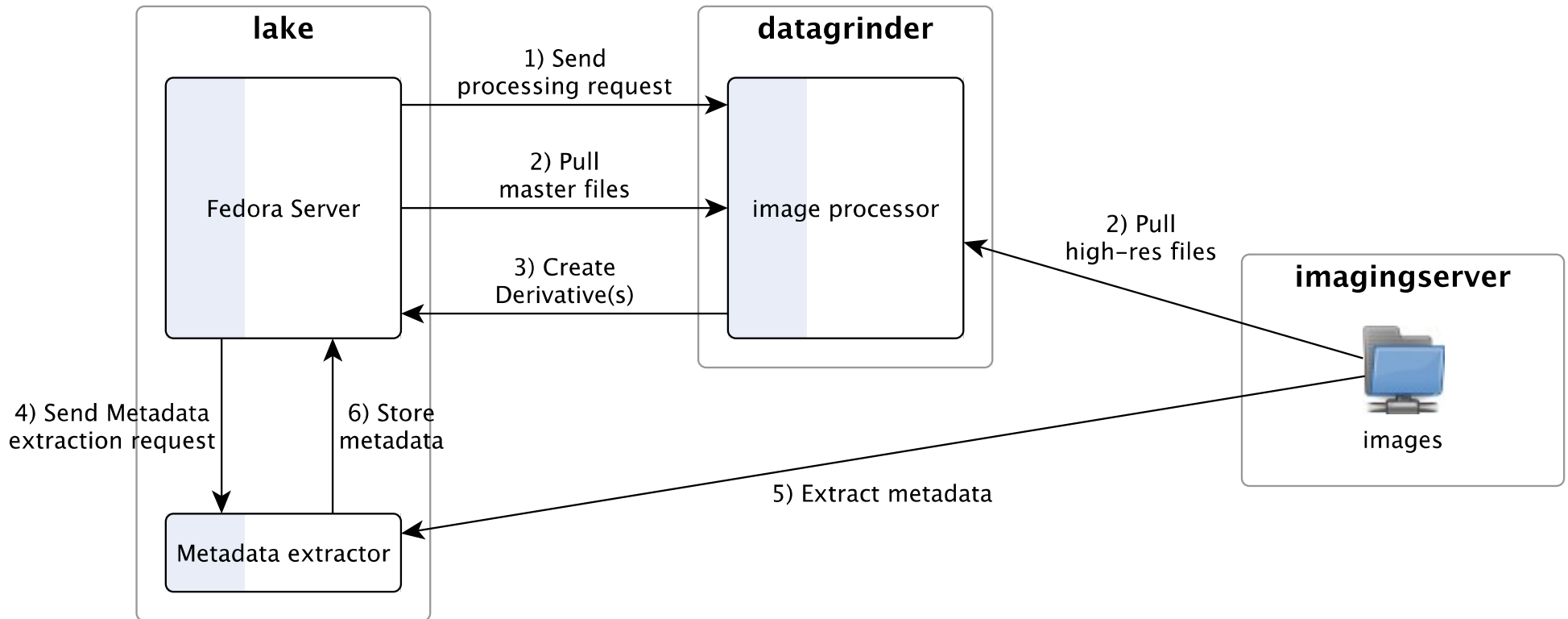
# Use Case 1: Ingesting Large Files



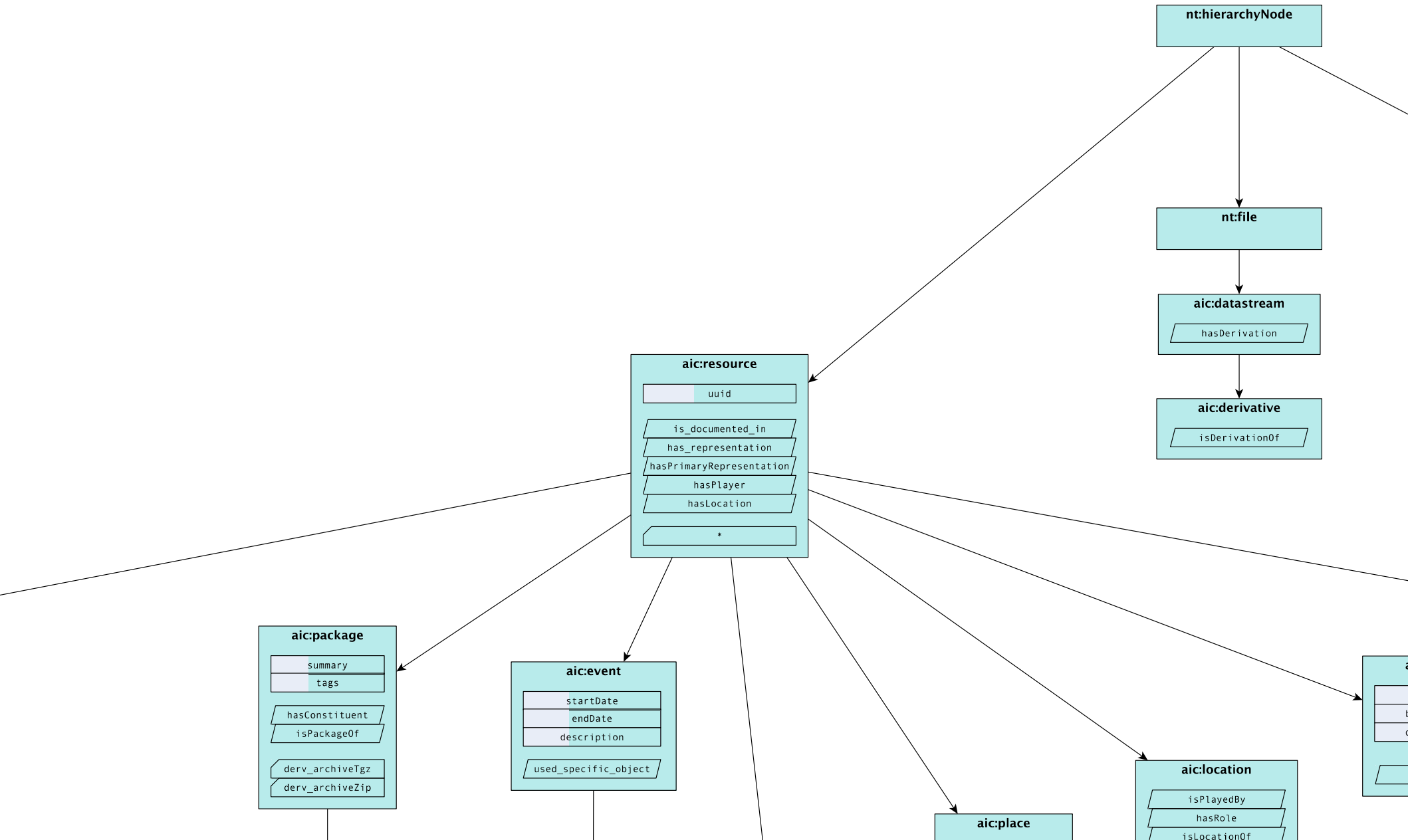
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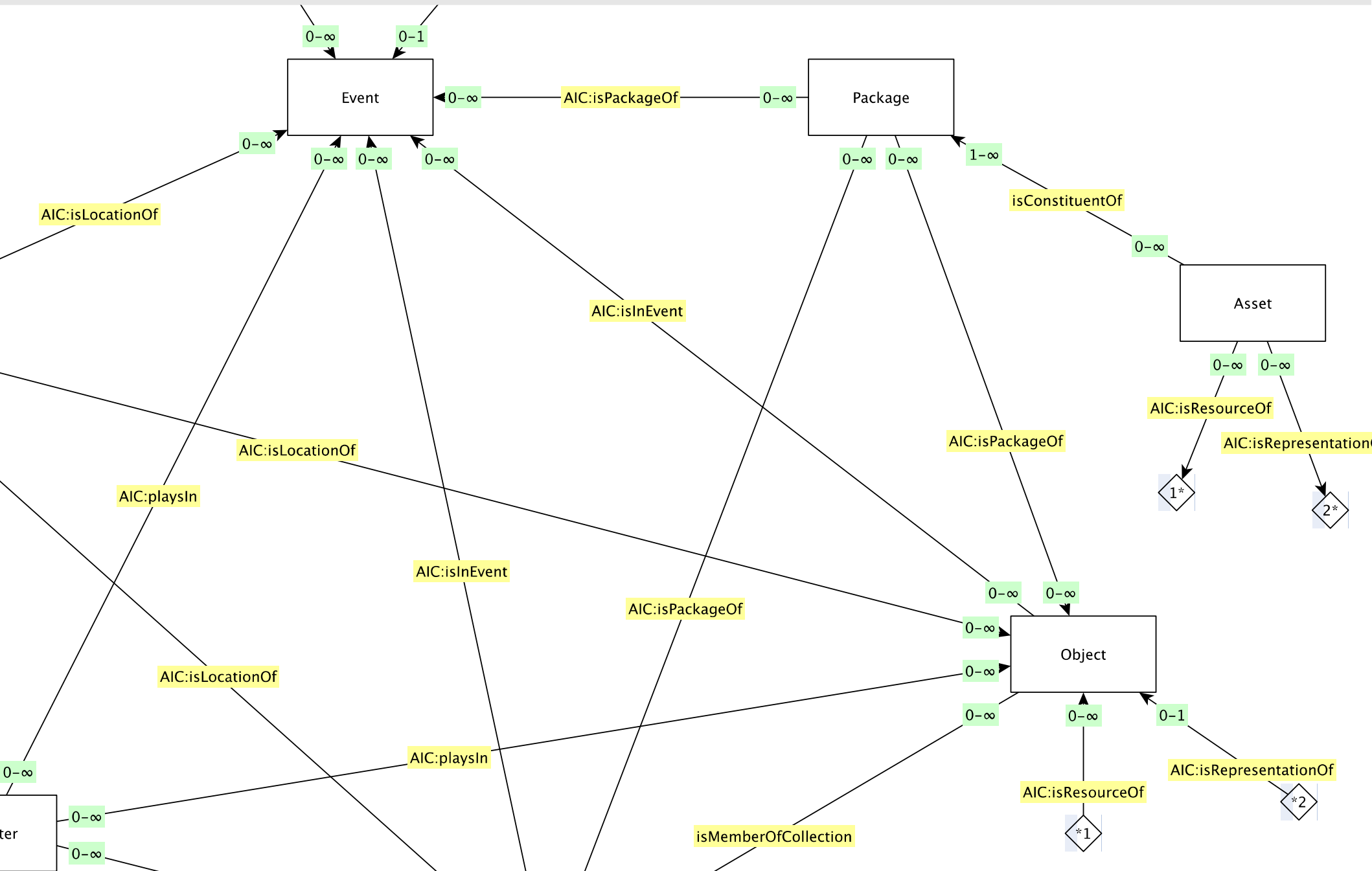


# Use Case 2: Content Modeling





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# Fedora 3 features

Fedora 3 features that we would like to see redesigned and improved in Fedora 4:

- Enhanced Content Modeling
- Disseminators